Ying Liu

List of Publications by Year
in descending order

108	2,740	172457	197818
108 papers	2,740 citations	29 h-index	49 g-index

| 111 all docs | 111 docs citations | 111 times ranked | 2101 citing authors |

#	Article	IF	Citations
1	Multi-Indicators Decision for Product Design Solutions: A TOPSIS-MOGA Integrated Model. Processes, 2022, 10, 303.	2.8	6
2	A Data-Driven Approach for Integrating Hedonic Quality and Pragmatic Quality in User Experience Modeling. Journal of Computing and Information Science in Engineering, 2022, 22, .	2.7	4
3	A New Method of Predicting the Energy Consumption of Additive Manufacturing considering the Component Working State. Sustainability, 2022, 14, 3757.	3.2	4
4	Regional-based strategies for municipality carbon mitigation: A case study of Chongqing in China. Energy Reports, 2022, 8, 4672-4694.	5.1	9
5	Establishing Product Appearance Specifications with the Identification of User Aesthetic Needs in Product Conceptual Design. Management and Industrial Engineering, 2022, , 199-217.	0.4	2
6	Conceptual Design for Innovation: Process and a Knowledge-Based Approach. Management and Industrial Engineering, 2022, , 179-198.	0.4	5
7	Adaptive Genetic Algorithm Based on Fuzzy Reasoning for the Multilevel Capacitated Lot-Sizing Problem with Energy Consumption in Synchronizer Production. Sustainability, 2022, 14, 5072.	3.2	3
8	Conceptual Design of Intelligent Manufacturing Equipment Based on a Multi-source Heterogeneous Requirement Mapping Method. IFAC-PapersOnLine, 2022, 55, 475-480.	0.9	0
9	Multi-faceted modelling for strip breakage in cold rolling using machine learning. International Journal of Production Research, 2021, 59, 6347-6360.	7.5	9
10	Industrial Internet of Learning (IIoL): IIoT based pervasive knowledge network for LPWAN—concept, framework and case studies. CCF Transactions on Pervasive Computing and Interaction, 2021, 3, 25-39.	2.6	12
11	Research on Blank Optimization Design Based on Low-Carbon and Low-Cost Blank Process Route Optimization Model. Sustainability, 2021, 13, 1929.	3.2	5
12	Supporting resilient conceptual design using functional decomposition and conflict resolution. Advanced Engineering Informatics, 2021, 48, 101262.	8.0	38
13	Analysis the Drivers of Environmental Responsibility of Chinese Auto Manufacturing Industry Based on Triple Bottom Line. Processes, 2021, 9, 751.	2.8	7
14	A smart knowledge deployment method for the conceptual design of low-carbon products. Journal of Cleaner Production, 2021, 321, 128994.	9.3	27
15	Multi-sourced Modelling for Strip Breakage using Knowledge Graph Embeddings. Procedia CIRP, 2021, 104, 1884-1889.	1.9	2
16	Automatic Identification of Bottleneck Tasks for Business Process Management using Fusion-based Text Clustering. IFAC-PapersOnLine, 2021, 54, 1200-1205.	0.9	2
17	Deep Fusion for Energy Consumption Prediction in Additive Manufacturing. Procedia CIRP, 2021, 104, 1878-1883.	1.9	12
18	An integrated decision-making method for selecting machine tool guideways considering remanufacturability. International Journal of Computer Integrated Manufacturing, 2020, 33, 686-700.	4.6	32

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19	Deep learning-driven particle swarm optimisation for additive manufacturing energy optimisation. Journal of Cleaner Production, 2020, 245, 118702.	9.3	36
20	Cloud-based big data analytics for customer insight-driven design innovation in SMEs. International Journal of Information Management, 2020, 51, 102034.	17.5	80
21	A Multi-source Feature-level Fusion Approach for Predicting Strip Breakage in Cold Rolling. , 2020, , .		5
22	Reinforcement learning for facilitating human-robot-interaction in manufacturing. Journal of Manufacturing Systems, 2020, 56, 326-340.	13.9	66
23	Improving Human-Robot Interaction Utilizing Learning and Intelligence: A Human Factors-Based Approach. IEEE Transactions on Automation Science and Engineering, 2020, , 1-14.	5.2	8
24	Review on Recent Advances in Information Mining From Big Consumer Opinion Data for Product Design. Journal of Computing and Information Science in Engineering, 2019, 19, .	2.7	64
25	Characterizing Strip Snap in Cold Rolling Process Using Advanced Data Analytics. Procedia CIRP, 2019, 81, 453-458.	1.9	7
26	Data-driven ecological performance evaluation for remanufacturing process. Energy Conversion and Management, 2019, 198, 111844.	9.2	77
27	Energy consumption modelling using deep learning embedded semi-supervised learning. Computers and Industrial Engineering, 2019, 135, 757-765.	6.3	51
28	Exploiting user experience from online customer reviews for product design. International Journal of Information Management, 2019, 46, 173-186.	17.5	115
29	Integrating Topic, Sentiment, and Syntax for Modeling Online Reviews: A Topic Model Approach. Journal of Computing and Information Science in Engineering, 2019, 19, .	2.7	13
30	Extracting topic-sensitive content from textual documentsâ€"A hybrid topic model approach. Engineering Applications of Artificial Intelligence, 2018, 70, 81-91.	8.1	12
31	Learning From the Past: Uncovering Design Process Models Using an Enriched Process Mining. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	5
32	An investigation of the mechanical properties of metallic lattice structures fabricated using selective laser melting. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1719-1730.	2.4	36
33	Quasi-static analysis of mechanical properties of Ti6Al4V lattice structures manufactured using selective laser melting. International Journal of Advanced Manufacturing Technology, 2018, 94, 2301-2313.	3.0	61
34	Energy Consumption Modelling Using Deep Learning Technique â€" A Case Study of EAF. Procedia CIRP, 2018, 72, 1063-1068.	1.9	34
35	Voice of the Customer Oriented New Product Synthesis Over Knowledge Graphs. , 2018, , .		0
36	Multi-source data analytics for AM energy consumption prediction. Advanced Engineering Informatics, 2018, 38, 840-850.	8.0	32

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37	Automatic Discovery of Design Task Structure Using Deep Belief Nets. Journal of Computing and Information Science in Engineering, 2017, 17, .	2.7	5
38	Therblig-embedded value stream mapping method for lean energy machining. Energy, 2017, 138, 1081-1098.	8.8	61
39	A formal functional representation methodology for conceptual design of material-flow processing devices. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 353-366.	1.1	9
40	Engineering design informatics. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 335-336.	1.1	2
41	Enhanced SPARQL-based design rationale retrieval. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 406-423.	1.1	2
42	An Investigation into the Quasi-Static Response of Ti6Al4V Lattice Structures Manufactured Using Selective Laser Melting. Smart Innovation, Systems and Technologies, 2016, , 399-409.	0.6	5
43	Discovering a Hierarchical Design Process Model Using Text Mining. , 2016, , .		3
44	Editorial for the Special Issue of Sustainable Design and Manufacturing for Circular Economy. Journal of Industrial and Production Engineering, 2016, 33, 295-296.	3.1	1
45	An Evaluation Methodology for Design Concept Communication Using Digital Prototypes. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	4
46	Understanding big consumer opinion data for market-driven product design. International Journal of Production Research, 2016, 54, 3019-3041.	7.5	129
47	Designing a Fast Adaptive Clustering Approach for Traffic Wave Simulation. , 2015, , .		1
48	Editorial for the special issue of decision support for sustainable design and manufacturing. Journal of Industrial and Production Engineering, 2015, 32, 1-2.	3.1	14
49	Translating online customer opinions into engineering characteristics in QFD: A probabilistic language analysis approach. Engineering Applications of Artificial Intelligence, 2015, 41, 115-127.	8.1	65
50	A methodology of integrating affective design with defining engineering specifications for product design. International Journal of Production Research, 2015, 53, 2472-2488.	7.5	45
51	PubMed-supported clinical term weighting approach for improving inter-patient similarity measure in diagnosis prediction. BMC Medical Informatics and Decision Making, 2015, 15, 43.	3.0	9
52	An approach for design rationale retrieval using ontology-aided indexing. Journal of Engineering Design, 2014, 25, 259-279.	2.3	10
53	A framework for concept validation in product design using digital prototyping. Journal of Industrial and Production Engineering, 2014, 31, 286-302.	3.1	4
54	Prioritising engineering characteristics based on customer online reviews for quality function deployment. Journal of Engineering Design, 2014, 25, 303-324.	2.3	39

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55	Discovering contextual tags from product review using semantic relatedness. Journal of Industrial and Production Engineering, 2014, 31, 108-118.	3.1	3
56	Recommending Rating Values on Reviews for Designers. , 2014, , 1998-2009.		0
57	Searching in Cooperative Patent Classification: Comparison between keyword and concept-based search. Advanced Engineering Informatics, 2013, 27, 335-345.	8.0	64
58	Engineering design using game-enhanced CAD: The potential to augment the user experience with game elements. CAD Computer Aided Design, 2013, 45, 777-795.	2.7	74
59	Identifying helpful online reviews: A product designer's perspective. CAD Computer Aided Design, 2013, 45, 180-194.	2.7	133
60	Product Family Design Through Ontology-Based Faceted Component Analysis, Selection, and Optimization. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	25
61	Rationale-Based Patent Analysis for Corporate Product Design. , 2013, , .		1
62	Product characteristic weighting for designer from online reviews. , 2012, , .		9
63	An Exploratory Study of Ontology-Based Platform Analysis Under User Preference Uncertainty. , 2012, , .		5
64	Functional-Based Search for Patent Technology Transfer. , 2012, , .		15
65	A New Discrete Event System Model for Supervising and Controlling Robotic Arm Path Tacking Tasks Based on Adaptive Masking. , 2012, , .		0
66	Advances in intelligent grid and cloud computing. Information Systems Frontiers, 2012, 14, 823-825.	6.4	11
67	Editorial for the special issue of service computing and service oriented enterprise systems in design, manufacturing and supply chain. Journal of Intelligent Manufacturing, 2012, 23, 1327-1329.	7.3	0
68	Learning the "Whys" Discovering design rationale using text mining — An algorithm perspective. CAD Computer Aided Design, 2012, 44, 916-930.	2.7	48
69	Workflow simulation for operational decision support using event graph through process mining. Decision Support Systems, 2012, 52, 685-697.	5.9	48
70	A Platform Selection Approach Based on Product Family Ontology Modeling. , 2011, , .		0
71	Opinion comparison between internet forums and customer reviews. International Journal of Computer Applications in Technology, 2011, 40, 107.	0.5	1
72	Multidocument Summarization of Engineering Papers Based on Macro- and Microstructure. Journal of Computing and Information Science in Engineering, 2011, 11, .	2.7	2

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73	Design Preference Centered Review Recommendation: A Similarity Learning Approach. , 2011, , .		0
74	Web classification of conceptual entities using co-training. Expert Systems With Applications, 2011, 38, 14367-14375.	7.6	10
75	A methodology for building a semantically annotated multi-faceted ontology for product family modelling. Advanced Engineering Informatics, 2011, 25, 147-161.	8.0	59
76	Editorial for the special issue of information mining and retrieval in design. Advanced Engineering Informatics, 2011, 25, 117-118.	8.0	2
77	A New Design Rationale Representation Model for Rationale Mining. Journal of Computing and Information Science in Engineering, 2010, 10, .	2.7	31
78	Interactive Interface Design for Design Rationale Search and Retrieval. , 2010, , .		5
79	Developing Customer Preferences for Concept Generation by Using Engineering Ontologies. , 2010, , .		2
80	Multi-facet product information search and retrieval using semantically annotated product family ontology. Information Processing and Management, 2010, 46, 479-493.	8.6	47
81	How to interpret the helpfulness of online product reviews. , 2010, , .		13
82	User Interface Design for Interactive Product Family Analysis and Variants Derivation. , 2010, , .		0
83	Designing graphical interfaces for design rationale search & retrieval. , 2010, , .		0
84	Domain concept handling in automated text categorization. , 2010, , .		0
85	A Novel Approach of Process Mining with Event Graph. Lecture Notes in Computer Science, 2010, , 131-140.	1.3	0
86	Product Analysis and Variants Derivation Based on a Semantically Annotated Product Family Ontology. , 2009, , .		4
87	Using semantic annotation for ontology based decision support in product family design. , 2009, , .		2
88	What makes categories difficult to classify?. , 2009, , .		2
89	A design rationale representation model using patent documents. , 2009, , .		5
90	Faceted search and retrieval based on semantically annotated product family ontology. , 2009, , .		12

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91	On strategies for imbalanced text classification using SVM: A comparative study. Decision Support Systems, 2009, 48, 191-201.	5.9	202
92	Imbalanced text classification: A term weighting approach. Expert Systems With Applications, 2009, 36, 690-701.	7.6	182
93	False positive reduction in urinary particle recognition. Expert Systems With Applications, 2009, 36, 11429-11438.	7.6	10
94	Automating object-oriented integration and visualization of multidisciplinary biomedical data in radiology workflow: Compartmental PACS model. Information Systems Frontiers, 2009, 11, 369-379.	6.4	2
95	Editorial for the special issue of knowledge discovery and management in biomedical information systems. Information Systems Frontiers, 2009, 11, 345-347.	6.4	3
96	Editorial for the special issue of knowledge discovery and management in engineering design and manufacturing. Journal of Intelligent Manufacturing, 2009, 20, 499-500.	7.3	3
97	Gather customer concerns from online product reviews â€" A text summarization approach. Expert Systems With Applications, 2009, 36, 2107-2115.	7.6	161
98	On macro- and micro-level information in multiple documents and its influence on summarization. International Journal of Information Management, 2009, 29, 57-66.	17.5	5
99	An enhanced adaptive CUSUM control chart. IIE Transactions, 2009, 41, 642-653.	2.1	149
100	On Document Representation and Term Weights in Text Classification. , 2009, , 1-22.		8
101	From Faceted Classification to Knowledge Discovery of Semi-structured Text Records. Studies in Computational Intelligence, 2009, , 151-169.	0.9	2
102	A binomial CUSUM chart for detecting large shifts in fraction nonconforming. Journal of Applied Statistics, 2008, 35, 1267-1276.	1.3	28
103	A hierarchical text classification system for manufacturing knowledge management and retrieval. International Journal of Knowledge Management Studies, 2008, 2, 406.	0.3	4
104	DICOM-Based Multidisciplinary Platform for Clinical Decision Support: Needs and Direction. Studies in Computational Intelligence, 2008, , 191-212.	0.9	3
105	Deriving Taxonomy from Documents at Sentence Level. , 2008, , 99-119.		9
106	Handling of Imbalanced Data in Text Classification: Category-Based Term Weights. , 2007, , 171-192.		7
107	Corpus Building for Corporate Knowledge Discovery and Management: A Case Study of Manufacturing. , 2007, , 542-550.		3
108	The role of cultural diversity and leadership in computer-supported collaborative learning: a content analysis. Information and Software Technology, 2006, 48, 142-153.	4.4	24